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connected to the opening, and the hinge part includes: a hinge spring which is installed to the hinge chamber; a hinge part which is inserted in the hinge chamber to enclose the hinge spring, which has a rotary hinge hole formed at a center portion thereof, and which has a rotary hinge projection formed on an outer surface thereof to be combined to the guide groove and which has a rotary hinge surface formed at a surface; a fixed hinge part which encloses the fixed hinge part, which has a fixed hinge hole corresponding to the rotary hinge hole, and which has a fixed hinge surface formed on a side thereof to be corresponding to the rotary hinge surface and a fixed projection formed on the other side to be fixed to the body; and a hinge shaft extending through the fixed hinge hole, the rotary hinge hole and the hinge spring to be fixed to the hinge chamber.

12. The hinge mechanism of the portable phone according to claim 1, wherein the hinge part includes: a hinge housing which has a hinge housing chamber with an opened top portion, which has a guide groove formed lengthwise on a side wall thereof, and a hinge spring projection formed at the other side thereof; a rotary hinge part which is installed to the hinge housing, which has a rotary hinge projection formed on an outer surface to be inserted in guide recess and a hinge hole formed at a center portion thereof, and which has a rotary hinge surface continuously and horizontally extending to the hinge hole while having two-wave type of bending when rotating each time; a fixed hinge part which is rotatably installed to the hinge housing, which has a fixed hinge surface formed at a side thereof to be corresponding to the rotary hinge surface, which has a hinge shaft formed on the fixed hinge surface to be inserted in the rotary hinge hole, and which has a fixed hinge projection formed at the other side thereof to be inserted in the hinge housing hole; and a hinge spring which is installed to the hinge housing so that an end of the hinge spring is combined to the hinge spring projection and the other end elastically supports the second rotary hinge part.

13. The hinge mechanism of the portable phone according to claim 1, wherein a camera lens is attached to an inner surface or outer surface of the cover to take a picture, and

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wherein a control switch is installed to a side of the body to control an operation of the camera lens.

14. The hinge mechanism of portable phone according to claim 1, wherein a camera lens is attached to an inner surface or outer surface of the body to take a picture, and wherein a control switch is installed to a side of the body to control an operation of the camera lens.

15. The hinge mechanism of a portable phone comprising: a housing having a rotary chamber with an opened top portion and a hinge chamber formed at a side of the rotary chamber, for mechanically connecting a cover to a body;

a hinge part which is installed to the hinge chamber, for opening and closing the cover; and

a rotary part which is installed to the rotary chamber, for rotating the cover,

wherein the rotary part includes a cylinder which opens at a lower portion and has a cylinder chamber, which has a cylinder hole formed in an upper portion thereof and an arm projected from the upper portion thereof to be combined with the cover, and which has a cylinder groove formed lengthwise thereon; a compressed spring which is installed in the cylinder chamber; a rotary slip part which has a rotary slip hole formed at a center portion thereof; a fixed slip part which has a polygonal hole formed at a center portion thereof and which has a fixed slip surface on an upper portion; and a center shaft which has a polygonal projection to be combined with the polygonal hole, and which is installed at a bottom surface of the rotary chamber to sequentially extend the polygonal hole, the rotary slip hole, the compressed spring and the cylinder hole, wherein a pair of projections is installed on the rotary slip surface symmetrically about the center thereof, while a pair of hemispheric grooves is formed on the fixed slip surface to face the projections or vice versa, and a guide recess is formed to communicate with the hemispheric grooves.

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